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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/808,277	03/14/2001	Andrew M. Warwick	GB 000029	3110
Q 7.	590 08/28/2002			
Corporate Patent Counsel			EXAMINER	
U.S. Philips Co 580 White Plair	ns Road		ROSE, KIESHA L	
Tarrytown, NY	10591		ART UNIT	PAPER NUMBER
			2822	
			DATE MAILED: 08/28/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

			AL			
	Application No.	Applicant(s)				
	09/808,277	WARWICK, ANDREV	V M.			
Office Action Summary	Examiner	Art Unit				
	Kiesha L. Rose	2822				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MCNTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
1) Responsive to communication(s) filed on 01.	July 2002 .					
2a)⊠ This action is FINAL . 2b)□ Th	nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7)☐ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to th	***					
11) The proposed drawing correction filed on	_ is: a)	oved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Ex	caminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreigr	n priority under 35 U.S.C. § 119(a	n)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority document 	s have been received.					
Certified copies of the priority document	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summan	/ (PTO-413) Paper No(s)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	Patent Application (PTO-1				

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DETAILED ACTION

This Office Action is in response to the amendment filed 1 July 2002.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Okumura (U.S. Patent 6,265,744).

Okumura discloses a semiconductor device (Figs. 7a and 9) that contains a semiconductor body having an active cell area wherein striped shaped trenches (29), containing gate material (33) and an insulating layer (31) provided between gate material (33) and semiconductor body, extend into the semiconductor body from a surface thereof, where adjacent to the trenches (29) are source regions (25) of the first conductivity type separated from a drain region (21) by a channel accommodating body region (23) of a second conductivity type and a source electrode (41) that contacts the source region (25), where the active cell area has a network of connected trenches (29)

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with a source region (25) in each cell and the trenches (29) extend beyond the active cell area to an inactive cell area where the source region (25) is not present, the inactive cell area contains a gate electrode contact area (43) and a gate bond pad (51) that contacts the gate material (33) on the whole area of the trenches and the semiconductor body, where the semiconductor body in the inactive cell area has a first region (27) of first conductivity type and an underlying second region (23) with a second conductivity type, which is continuous with the channel accommodating body region, that are provided as isolated cells surrounded by a network of connected trenches and some of the isolated cells in the inactive cell area nearest to the active cell area are linking cells across the inactive and active cell area that provides voltage protection diodes between the gate and source electrodes (43/41) and a patterned insulating layer (35) is provided on the semiconductor body wherein in the active cell area the insulating layer provides an insulating overlayer on the trenches (29) and has windows where the source electrode (41) contacts the source regions (25) and wherein in the inactive cell area a window in the insulating layer provides the gate electrode contact area (43).

Response to Arguments

Applicant's arguments filed 1 July 2002 have been fully considered but they are not persuasive. Applicant argues that the Okumura reference does not disclose the linking cells provided across the inactive and active areas, wherein each linking cell has a first region contacted by the gate electrode and a source region contacted by the source electrode. The Okumura reference does disclose those limitations where the

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inactive and active areas have linking cells that are contacted by the gate electrode (33) and the source region contacted by the source electrode (43). (Refer to Fig. 7A)

Therefore the rejection stands.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiesha L. Rose whose telephone number is 703-605-4212. The examiner can normally be reached on M-F 8:30-6:00 off 1st Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 703-308-4940. The fax phone numbers for the organization where this application or proceeding is assigned are 703-

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308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

KLR

August 23, 2002

Stephen D. Meler Primary Examiner